Docket No.: P1-007

## In the Claims

Kindly amend claims 1, 6, 29 and 30.

- 1. (Currently amended) An article comprising diamond directly deposited on a non-metallic framework material substrate having a porosity sufficient to permit the flow of fluids in at least one direction through the material.
- 2. (Original) The article of claim 1 wherein said framework material substrate comprises a material compatible with a diamond deposition process.
- 3. The article of claim 1 wherein said framework material (Original) substrate comprises a material incompatible with a diamond deposition process coated with a material compatible with a diamond deposition process.
- 4. (Original) The article of claim 1 wherein said diamond has a thickness of at least about 2 microns.

## 5. (Canceled)

6. (Currently amended) An article comprising diamond deposited directly on a non-metallic open-cell foam substrate having a porosity sufficient to permit the flow of fluids in at least one direction through the material.

Docket No.: P1-007

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7. (Original) The article of claim 6 wherein said framework material substrate comprises a material compatible with a diamond deposition process.

- 8. (Original) The article of claim 6 wherein said framework material substrate comprises a material incompatible with a diamond deposition process coated with a material compatible with a diamond deposition process.
- 9. (Original) The article of claim 6 wherein said diamond has a thickness of at least about 2 microns.
  - 10. (Canceled)
- 11. (Original) The article of claim 6 wherein said article has a porosity of at least 100 voids/inch.

Claims 12 through 27 (Withdrawn)

28. (Previously Amended) An article comprising:
a non-metallic reticulated unitary structure;
an interlayer coated on said non-metallic reticulated unitary structure;

Docket No.: P1-007

a diamond layer deposited on said interlayer configured to form a contiguous open structure configured for fluid flow in more than one axis through said contiguous open structure, wherein said diamond is fully coalesced.

- 29. (Currently amended) An article comprising diamond <u>directly</u> deposited on a non-metallic framework material substrate having a porosity sufficient to permit the flow of fluids in at least one direction through the material, wherein said diamond is fully coalesced.
- 30. (Currently amended) An article comprising diamond <u>directly</u> deposited on a non-metallic open-cell foam substrate having a porosity sufficient to permit the flow of fluids in at least one direction through the material, wherein said diamond is fully coalesced.